From: David Garrett [david@davidgarrettpe.com]

Sent: Tuesday, August 18, 2009 2:16 PM

To: Wootton, Brian Subject: CMS Landfill

Attachments: subgrade inspection report Cell 2H.pdf; CMS piezometer

abandoment report Phase 2H.pdf

Brian, the attached is submitted on behalf of CMS, per Mike Gurley's request. Please contact me with questions regarding this submittal.

David Garrett, P.G., P.E.

David Garrett & Associates 5105 Harbour Towne Drive Raleigh, NC 27604

Tel. 919-418-4375 (mobile)

David Garrett & Associates Engineering and Geology

August 11, 2009

Messrs. Brian Wootton and John Murray NC DENR Division of Waste Management Solid Waste Section 401 Oberlin Road Raleigh, North Carolina, 27611

RE: Geologist's Subgrade Inspection Report CMS Landfill-V (MSWLF) – Cell 2H Permit #13-04 (Cabarrus County)

Dear Sirs:

On behalf of BFI Waste Systems of North America (a division of Republic Services), I am pleased to present this report pertaining to a subgrade inspection for the referenced landfill construction. Cell 2H is located in Phase 2 (the last cell in that phase), within a previously approved footprint. This report is based on first-hand inspection of subgrade conditions, prior involvement with previous cells, and revised subgrade contours prepared by Brown and Caldwell and furnished by Earnhardt Grading. I visited the site on June 18, 2009 in conjunction with piezometer abandonment activities and observed the grading in progress. Based on the grading plan, cuts and fills are generally on the order of 2 to 4 feet, except at the sumps where cuts on the order of 6 to 8 feet were performed (see attached figure).

The subgrade inspection was made per North Carolina Solid Waste regulations, 15A NCAC 13B .1600 and/or subsequent regulatory protocols. The inspection requires that the owner's geologist or engineer examine the cell excavation and note any pertinent geologic features exposed during the construction process. The Owner shall notify the NC DENR Solid Waste Section Hydrogeologist of these findings prior to placement of any waste material. In recent experience, a certification has been required stating that the subgrade soils and other conditions are consistent with the approved plans, or noting any differences. This letter completes the required notification and certification.

Observed subgrade soils generally consist of tan-orange variably sandy and silty clay, as expected based on site history. The west side of the cell has two diabase dikes mapped, but only dark red clayey soil and an occasional small boulder was exposed. Other quartz gravel and small cobbles were exposed, but no bedrock or large boulders were encountered. Soil conditions in Cell 2H were consistent with that is Cells 2F and 2G, except that no large boulders or zones of partially weathered rock (exposed in those cells) were observed this time.

The Phase 2 permit documents showed bedrock and ground water to be several feet below finished grades – vertical separation within Cell 2H was not a concern during permitting. No ground water, seeps, or perched water were observed along the exposed subgrade. No wet or soft soils requiring undercutting were observed within Cell 2H. All piezometers within Cell 2H were abandoned (see separate correspondence).

As such, the exposed subgrade conditions appear consistent with the expectations determined in the original permitting and conditions observed in previous cells. Based on these findings, I recommend no modifications to the Ground Water Monitoring Plan or base grades. No further geologic evaluations of Cell 2H are warranted.

Please contact me if I can provide any additional data.

Sincerely,

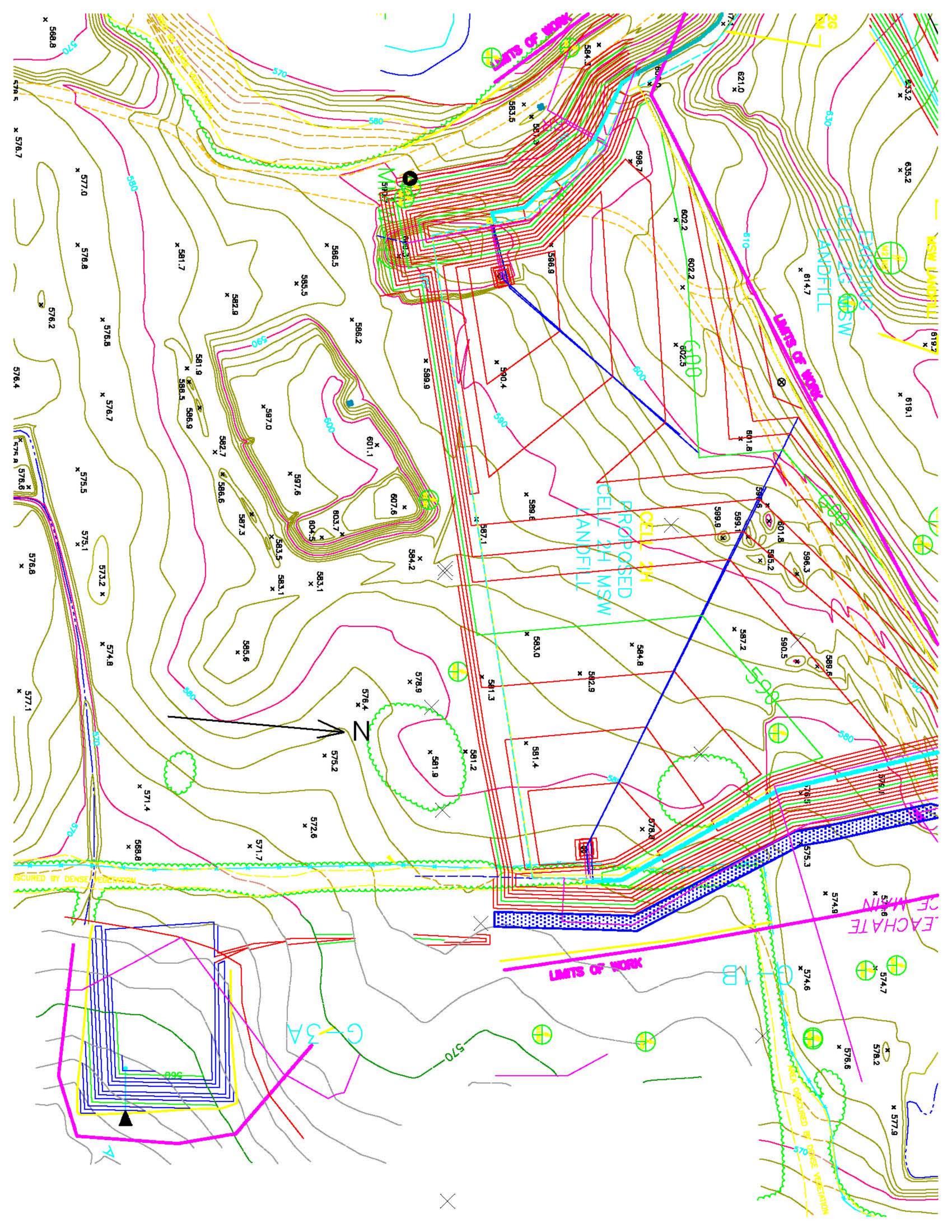
G. David Garrett, P.G., P.E.

Consulting Engineer

cc: Mr. Mike Gurley – Environmental Manager, BFI

Attachment: Excerpt of construction plan by Brown and Caldwell,

(furnished by Earnhardt Grading)



David Garrett & Associates Engineering and Geology

August 11, 2009

Mr. Brian Wootton, Hydrogeologist NC DENR Division of Waste Management Solid Waste Section 401 Oberlin Road Raleigh, North Carolina, 27611

RE: Piezometer Abandonment Records CMS Landfill-V (MSWLF) – Cell 2H Permit #13-04 (Cabarrus County)

Dear Sirs:

On behalf of BFI Waste Systems of North America (a division of Republic Services), I am pleased to present this documentation of the abandonment of piezometers within and near the footprint of Cell 2H. The work was performed in July 2009 by Red Dog Drilling, Inc., under my responsible charge. Please refer to the following attached documents:

- Site Map from original permit application showing abandonment locations
- Well Abandonment Records, Form GW-30, prepared by Red Dog Drilling

The piezometers were abandoned by over drilling to remove all downhole materials and grouting to the surface with bentonite-cement slurry. Please note that four soil borings that did not encounter significant water – hence these were not fitted with piezometers – were not abandoned; these had been backfilled upon completion of the site investigation.

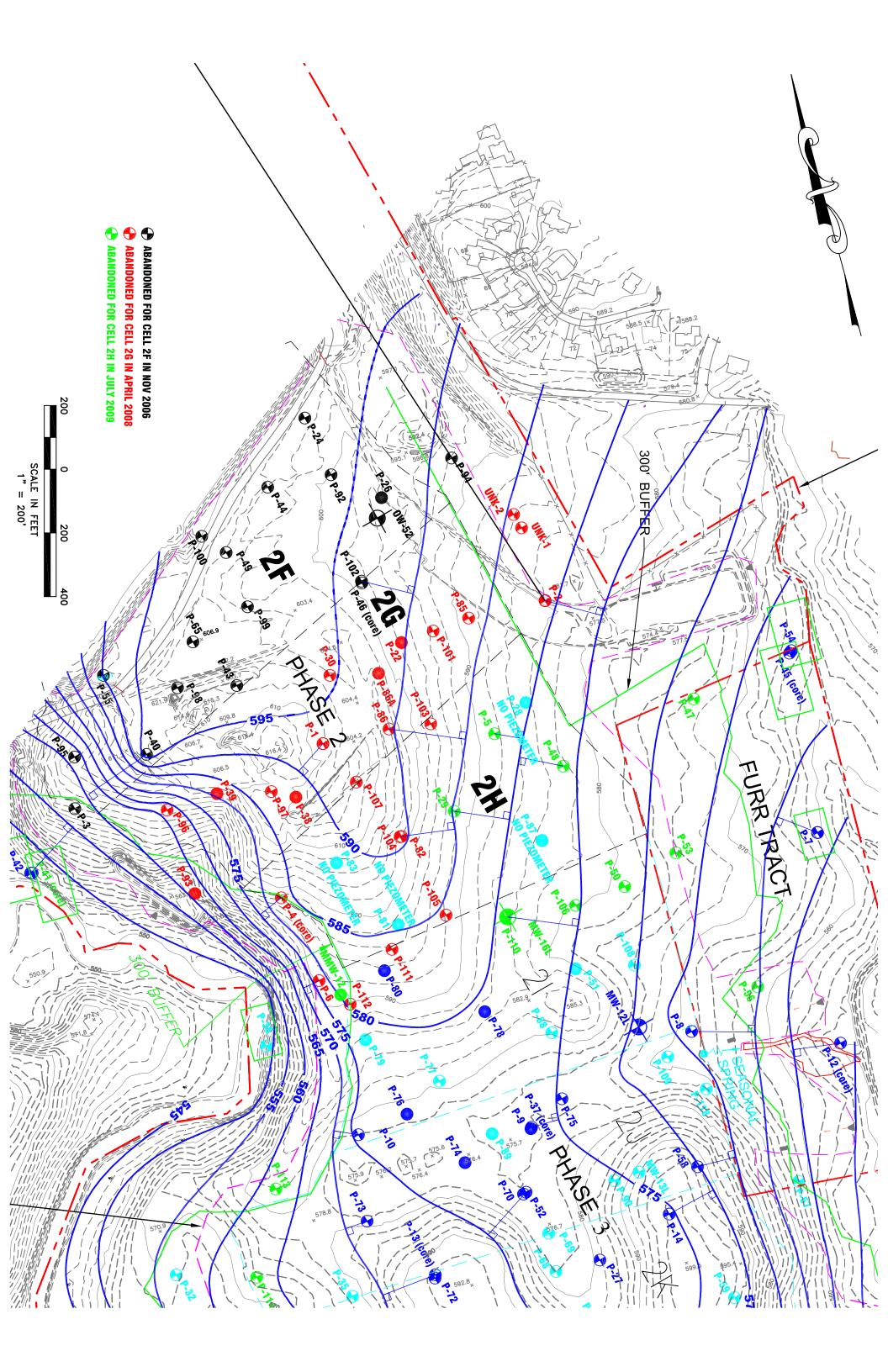
Please contact me if I can provide any additional data.

Sincerely,

G. David Garrett, P.G., P.E.

Consulting Engineer

cc: Mr. Mike Gurley – Environmental Manager, BFI



North Carolina Department of Environment and Natural Resources- Division of Water Quality

1. WELL CONTRACTOR:	5. WELL DETAILS:		
Mark E. Seiler, Sr.	a. Total Depth: i5.8 ft. Diameter; 2 in.		
Well Contractor (Individual) Name	b. Water Level (Below Measuring Point): 7.4 ft.		
Red Dog Drilling Well Contractor Company Name	Measuring point is 2 ft. above land surface.		
STREET ADDRESS 216 Pinewood Lane	6. CASING: Length Diameter		
Midland NC 28107	a. Casing Depth (if known): 15.8 ft. 2 in. b. Casing Removed: 15.8 ft. 2 in.		
City or Town State Zip Code	b. Casing Removed: 15.8 ft. 2 in.		
(704) - 888-5422 Area code - Phone number	7. DISINFECTION: HTH - 1 lb		
2. WELL INFORMATION:	(Amount of 65%-75% calcium hypochlorite used)		
SITE WELL ID # (if applicable) P-5	8. SEALING MATERIAL:		
STATE WELL PERMIT # (if applicable)	Neat Coment. Sand Coment		
COUNTY WELL PERMIT # (if applicable)	Cement 94 lb. Cement lb. Water 7.5 gal. Water gal.		
DWQ or OTHER PERMIT # (if applicable)	<u>Bentonite</u>		
WELL USE (Check applicable use): Monitoring Residential	Bentonite 5 lb.		
☐ Municipal/Public ☐ Industrial/Commercial ☐ Agricultural	Type: ☑ Slurry ☐ Pellets Water 7.5 gal.		
☐ Recovery ☐ Injection ☐ Irrigation	Other		
Other (list use) Piezometer	Type material Bent - Grout		
3. WELL LOCATION:	Amount 25 Gailons		
COUNTY Mecklenbur QUADRANGLE NAME	Autodia		
NEAREST TOWN: Harrisburg - Concord	9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:		
Allied Waste CMS V Landfill - Phase 2	Overdrill Hollow Stem Auger		
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel Zip Code)	Pull Casing - Screen		
TOPOGRAPHIC / LAND SETTING:	Tremie Grout 1" Pipe		
☑ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other			
(Check appropriate setting)	10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this		
LATITUDE May be in degrees, minutes, seconds, or in a decimal format	form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and		
LONGITUDE	types of fill materials used.		
Latitude/longitude source: GPS Topographic map (Location of well must be shown on a USGS topo map and	11. DATE WELL ABANDONED 6/9/09		
attached to this form if not using GPS.)	I DO HEREBY CERTIFY THAT THIS WELL, WAS ABANDONED IN ACCORDANCE		
4a. FACILITY- The name of the business where the well is located. Complete 4a and 4 (If a residential well, skip 4a; complete 4b, well owner information only.)	THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.		
FACILITY ID #(if applicable)	Time C. Deelse 7/20/09		
NAME OF FACILITY Speedway Landfill	SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE		
STREET ADDRESS			
City or Town State Zip Code	SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE (The private well owner must be an individual who personally abandons his/her residential well		
4b. CONTACT PERSON/WELL OWNER:	in accordance with 15A NCAC 2C .0113.)		
NAME Allied Waste Systems	Mark E. Seiler PRINTED NAME OF PERSON ABANDONING THE WELL		
STREET ADDRESS 5105 Morehead Rd.Corcord NC 282	TRIVIED WASIE OF PERSON ADMINISTRATING THE WELL.		

North Carolina Department of Environment and Natural Resources-Division of Water Quality

1. WELL CONTRACTOR:	5. WELL DETAILS:			
Mark E. Seiler, Sr.	a. Total Depth: 30.5 ft. Diameter: 2 in.			
Well Contractor (Individual) Name	b. Water Level (Below Measuring Point): 12.9 ft.			
Red Dog Drilling Well Contractor Company Name	Measuring point is 2 ft. above land surface.			
STREET ADDRESS 216 Pinewood Lane	6. CASING: Length Diameter			
Midland NC 28107	a. Casing Depth (if known): 30.5 ft. 2 in.			
City or Town State Zip Code	a. Casing Depth (if known): 30.5 ft. 2 in. b. Casing Removed: 30.5 ft. 2 in.			
(704) - 888-5422 Area code - Phone number	7. DISINFECTION: HTH - 1 lb			
2. WELL INFORMATION:	(Amount of 65% 75% calcium hypochlorite used)			
SITE WELL ID # (if applicable) P · 29	8. SEALING MATERIAL:			
STATE WELL PERMIT # (if applicable) W/A	Neat Cement Sand Coment			
COUNTY WELL PERMIT # (if applicable)	Ceraent 94 lb. Cement lb. Water 7.5 gal. Water gal.			
DWQ or OTHER PERMIT # (if applicable)	Bentonite			
WELL USE (Check applicable use): 🗹 Monitoring 💢 Residential	Bentonite 5 lb.			
☐ Municipal/Public ☐ Industrial/Commercial ☐ Agricultural	Type: ✓ Slurry ☐ Pellets Water 7.5 gal.			
☐ Recovery ☐ Injection ☐ Irrigation				
Other (list use) Piezometer	Other			
	Type material Bent - Groot			
3. WELL LOCATION:	Amount 45 Gailons			
COUNTY Mecklenburg QUADRANGLE NAME				
NEAREST TOWN: Harrisburg - Concord Allied Waste CMS V Landfill - Phase 2	9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:			
	Overdrill Hollow Stem Auger Pull Casing - Screen			
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)	Tremie Grout 1" Pipe			
TOPOGRAPHIC / LAND SETTING:	J. I. S. I.			
Slope				
	10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this			
LATTIUDE May be in degrees, minutes, seconds, or in a	form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of easing perforations, and depths and			
LONGITUDE	types of fill materials used.			
Latitude/longitude source: GPS Topographic map	10/00			
(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)	11. DATE WELL ABANDONED 6/9/09 I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE			
4a. FACILITY- The name of the basiness where the well is located. Complete 4a and the (If a residential well, skip 4a; complete 4b, well owner information only.)	WITH 15A MCAC 2C. WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.			
FACILITY ID #(if applicable)	Mus P. Seiler 7/20/09			
NAME OF FACILITY Speedway Landfill	SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE			
STREET ADDRESS				
City or Town State Zip Code	SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE (The private well owner must be an individual who personally abandons his/her residential well			
4b. CONTACT PERSON/WELL OWNER:	in accordance with 15A NCAC 2C .0113.)			
NAME Allied Waste Systems	Mark E. Seiler			
STREET ADDRESS 5105 Morehead Rd.Corcord NC 282	PRINTED NAME OF PERSON ABANDONING THE WELL			

North Carolina Department of Environment and Natural Resources- Division of Water Quality

1. WELL CONTRACTOR:	5. WELL DETAILS:		
Mark E. Seiler, Sr.	a. Total Depth: 20:/ ft. Diameter: 2 in.		
Well Contractor (Individual) Name	b. Water Level (Below Measuring Point): 115 ft.		
Red Dog Drilling	Measuring point is 2 ft, above land surface.		
Well Contractor Company Name			
STREET ADDRESS 216 Pinewood Lane	6. CASING: Length Diameter		
Midland NC 28107	a. Casing Depth (if known): 20.1 ft. 2 in. b. Casing Removed: 20.1 ft. 2 in.		
City or Town State Zip Code	b, Casing Removed: 20.1 ft. 2 in.		
(704) - 888-5422 Area code - Phone number	7. DISINVECTION: HTH - 1 lb		
2. WELL INFORMATION:	(Amount of 65% 75% calcium hypochlorite used)		
SITE WELL ID # (if applicable) P-110	8. SEALING MATERIAL:		
STATE WELL PERMIT # (if applicable)	Neat Cement Sand Cement Cement 94 lb. Cement lb.		
COUNTY WELL PERMIT # (if applicable)	Water 1.5 gal. Water gal.		
DWQ or OTHER PERMIT # (if applicable)	Bentanite		
WELL USE (Check applicable use): Monitoring Residential	Bentonite 5 lb.		
☐ Municipal/Public ☐ Industrial/Commercial ☐ Agricultural	Type: Shury Pellets Water 7-5 gal.		
☐ Recovery ☐ Injection ☐ Irrigation			
Other (list use) Piezometer	Other		
T can fine and	Type material Bert - 616 Jt		
3. WELL LOCATION:	Amount 30 Gollans		
COUNTY Mecklenbur QUADRANGLE NAME			
NEAREST TOWN: Harrisburg - Concord	9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:		
Allied Waste CMS V Landfill - Phase 2	Overdrill Hollow Stem Auger		
(Street Read Name, Number, Community, Subrivision, Let No., Parcel, Zip Code)	Pull Casing - Screen		
TOPOGRAPHIC / LAND SETTING:	Tremie Grout 1" Pipe		
☑ Slope □ Valley □ Flat □ Ridge □ Other			
(Check appropriate setting)	10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this		
LATTUDE May be in degrees, minutes, seconds, or in a	form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of easing perforations, and depths and		
LONGITUDE decimal fomast	types of fill materials used.		
Latitude longitude source: GPS Topographic map (Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)	11. DATE WELL ABANDONED 6/10/09		
4a. FACILITY- The name of the business where the well is located Complete & and to (If a residential well, skip 4a; complete 4b, well owner information only.)	I DO HERBEY CERTIFY THAT THES WELL WAS ABANDONED IN ACCORDANCE WITH ISA MCAC IC. IVELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.		
FACILITY ID #(if applicable)	Rial C Xelen 7/20/09		
NAME OF FACHLITY Speedway Landfill	SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE		
STREET ADDRESS	The state of the s		
City or Town State Zip Code	SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL. DATE (The griv ste well owner most be an individual who prospelly abandons his her residential well		
4b. CONTACT PERSONWELL OWNER:	in accordance with ISA MCAC 2C 8813.)		
NAME Allied Waste Systems	MORE E. Seller PRINTED NAME OF PERSON ABANDONING THE WELL		
STREET ADDRESS 5105 Morehead Rd. Corcord NC 282	LUGATED AND OR LEKSON WRAUDOMING THE METE		

North Carolina Department of Environment and Natural Resources-Division of Water Quality

1. WELL CONTRACTOR:	5. WELL DETAILS:
Mark E. Seiler, Sr.	a. Total Depth: 20 ft. Diameter: 2 in.
Well Contractor (Individual) Name	b. Water Level (Below Measuring Point): 12,4 ft.
Red Dog Drilling	Measuring point is 2 ft. above land surface.
Well Contractor Company Name	6. CASING: Length Diameter
STREET ADDRESS 216 Pinewood Lane	
Midland NC 28107 City or Town State Zip Code	a. Casing Depth (if known): 20 ft. 2 in.
City or Town State Zip Code (704) - 888-5422	b. Casing Removed: 20 ft. 2 in.
Area code - Phone number	7. DISINFECTION: HTH - 1 lb
2. WELL INFORMATION:	(Amount of 65% 75% calcium hypochlorite used)
SITE WELL ID # (if applicable) MW-16L	8. SEALING MATERIAL:
STATE WELL PERMIT # (if applicable)	Neat Coment. Sand Coment.
COUNTY WELL PERMIT # (if applicable)	Cement 94 lb. Cement lb. Water 7.5 gal. Water gal.
DWQ or OTHER PERMIT # (if applicable)	<u>Bentonite</u>
WELL USE (Check applicable use): Monitoring Residentia	
☐ Municipal/Public ☐ Industrial/Commercial ☐ Agricultur	Type: Slurry Pellets Water 7-S gal.
☐ Recovery ☐ Injection ☐ Irrigation	Other
Other (list usc) Piezometer	Type material Best - Great
. DOOL FARMINGS	Amount 30 Gailons
3. WELL LOCATION: COUNTY Mecklenbur QUADRANGLE NAME	
NEAREST TOWN: Harrisburg - Concord	
Allied Waste CMS V Landfill - Phase 2	EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL: Overdrill Hollow Stem Auger
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Cod	
TOPOGRAPHIC / LAND SETTING:	Tremie Grout 1" Pipe
☑ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other	
(Check appropriate setting)	10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this
LATTIUDE May be in degrees, minutes, seconds, or in a	form showing total depth, depth and diameter of screens (if any) remaining
LONGITUDE decimal format	in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.
Latitude/longitude source: GPS Topographic map	II DATE WELL ARANDONED 4/10/09
(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)	11. DATE WELL ABANDONED 4770/6 4
4a. FACILITY- The name of the business where the well is located. Complete 4a ar (If a residential well, skip 4a; complete 4b, well owner information only.)	I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.
FACILITY ID #(if applicable)	Mind C. Ob. B. 6/30/09
NAME OF FACILITY Speedway Landfill	SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE
STREET ADDRESS	
City or Town State Zip Code	SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE (The private well owner must be an individual who personally abandons his har residential well
4b. CONTACT PERSON/WELL OWNER:	in accordance with 15A NCAC 2C .0113.)
NAME Allied Waste Systems	Mark E. Seder
STREET ADDRESS 5105 Morehead Rd.Corcord NC 282	PRINTED NAME OF PERSON ABANDONING THE WELL

North Carolina Department of Environment and Natural Resources- Division of Water Quality

1. WELL CONTRACTOR:	5. WELL DETAILS:		
Mark E. Seiler, Sr.	a. Total Depth: 275 ft. Diameter: 2 in.		
Well Contractor (Individual) Name	b. Water Level (Below Measuring Point): 8 3 ft.		
Red Dog Drilling Well Contractor Company Name	Measuring point is 2 ft. above land surface.		
STREET ADDRESS 216 Pinewood Lane	6. CASING: Length Diameter		
Midland NC 28107	a. Casing Depth (if known): 27.5 ft. 2 in. b. Casing Removed: 27.5 ft. 2 in.		
City or Town State Zip Code	b. Casing Removed: 27.5 ft. 2 in.		
(704) - 888-5422 Area code - Phone number	7. DISINFECTION: HTH - 1 lb		
2. WELL INFORMATION:	(Amount of 65% 75% calcium hypochlorite used)		
SITE WELL ID # (if applicable) P - 48	8. SEALING MATERIAL:		
STATE WELL PERMIT # (if applicable)	Neat Cement Sand Coment		
COUNTY WELL PERMIT # (if applicable)	Centent 94 lb. Centent lb. Water 7.5 gal. Water gal.		
DWQ or OTHER PERMIT # (if applicable)	Bentanite		
WELL USE (Check applicable use): Monitoring Residential	Bentonite lb,		
☐ Municipal/Public ☐ Industrial/Commercial ☐ Agricultural	Type: ☑ Slurry ☐ Pellets		
Recovery Injection Irrigation	Water gal.		
	Other		
Other (list use) Piezometer	Type material Bent Goot		
3. WELL LOCATION:	Amount 40 Callons		
COUNTY Mecklenburg QUADRANGLE NAME	Amount 70 Gastara		
NEAREST TOWN: Harrisburg - Concord			
Allied Waste CMS V Landfill - Phase 2	 EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL: Overdrill Hollow Stem Auger 		
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)	Pull Casing - Screen		
TOPOGRAPHIC LAND SETTING:	Tremie Grout 1" Pipe		
Slope Valley Flat Ridge Other			
(Check appropriate setting)			
May be in degrees,	 WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining 		
LATTIUDE minutes, seconds, or in a decimal format	in the well, gravel interval, intervals of easing perforations, and depths and		
LONGITUDE	types of fill materials used.		
Latitudellongitude source: GPS Topographic map	11. DATE WELL ABANDONED 6/10/09		
(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)	11. DATE WELL ABANDONED		
4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b (If a residential well, skip 4a; complete 4b, well owner information only.)	WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.		
FACILITY ID #(if applicable)	Men C. Seeler 7/20/09		
NAME OF FACILITY Speedway Landfill	SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE		
STREET ADDRESS			
City or Town State Zip Code	SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE (The private well owner must be an individual who personally abandoes his/her residential well		
4b. CONTACT PERSON/WELL OWNER:	in accordance with 15A NCAC 2C .0113.)		
NAME Allied Waste Systems	PRINTED NAME OF PERSON ABANDONING THE WELL		
STREET ADDRESS 5105 Morehead Rd.Corcord NC 282	PARTED PARK OF PERSON ADAPBUARY HE WELL		

North Carolina Department of Environment and Natural Resources-Division of Water Quality

1. WELL CONTRACTOR:			WELL DETAILS:		
Mark E. Seiler, Sr.			a. Total Depth: 19.6 ft. Diameter; 2 in.		
Well Contractor (Individual) Name			h. Water Level (Below Measuri	ng Point): _//.5	_ n_
Red Dog Drilling			Measuring point is 2	fl. above land s	surface.
Well Contractor Company Name STREET ADDRESS 216 Pinewood Lar	ne	6.	CASING:	Length	Diameter
Midland NC	28107		Code Doub (if house)	161 0	2 .
City or Town State	Zip Codu		a. Casing Depth (if known): b. Casing Removed:	19.6 ft.	2 in.
(704) - 888-5422					
Area code - Phone number		7-	DISINFECTION: HTH - 1	lb	
2. WELL INFORMATION:			(Amount of 65% 75% calcium	hypochlorite used	1)
SITE WELL ID # (if applicable)	1060	8.	8. SFALING MATERIAL:		
STATE WELL PERMIT # (if applicable)			Neat Cement	Sand Cen	ent
COUNTY WELL PERMIT # (if applicable)			Cement 94 lb. Water 7.5 gal.	Cement Water	lb. gal.
DWQ or OTHER PERMIT # (if applicable)			Bentonite		
WELL USE (Check applicable use): 🗹 Moni	toring Residential		Bentonite 5 lb.		
☐ Municipal/Public ☐ Industrial/Comm	ercial Agricultural		Type: ☑ Slurry ☐ Pellets Water 7-5 gal		
☐ Recovery ☐ Injection ☐ Irrigation				L.	
Other (list use) Piezometer			Other		
			Type material Bent		
3. WELL LOCATION:			Amount 30	Gallons	
COUNTY Mecklenburg QUADRANGLE N					
NEAREST TOWN: Harrisburg - Conce	ord	9.	EXPLAIN METHOD OF EM	PLACEMENT O	OF MATERIAL:
Allied Waste CMS V Landfill - Ph	ase 2		Overdrill Hollow Stem		
(Street/Road Name, Number, Community, Subdivisi	on, Lot No., Parcel, Zip Code)		Pull Casing - Screen		
TOPOGRAPHIC / LAND SETTING:			Tremie Grout 1" Pipe		
Slope Valley Flat Ridge Of	her				
(Check appropriate setting)		10.	WELL DIAGRAM: Draw a de	tailed sketch of th	e well on the back of this
LATITUDE	May be in degrees, minutes, seconds, or in a		form showing total depth, depth		
LONGITUDE	decimal format		in the well, gravel interval, inter	vals of easing per	forations, and depths and
Latitude/longitude source: GPS To	oographis man		types of fill materials used.	/ /	
(Location of well must be shown on a USGS top attached to this form if not using GPS.)	THE PERSON NAMED IN	11.	DATE WELL ABANDONED	6/10/0	9
4a. FACILITY- The name of the business where the m (If a residential well, skip 4a; complete 4b, well owns		WITH	HEREBY CERTIFY THAT THIS WE I 15A NCAC 2C, WELL CONSTRUC RECORD HAS BEEN PROVIDED T	TION STANDARD	S, AND THAT A COPY OF
FACILITY ID #(if applicable)			91. 000	1	7/20/09
NAME OF FACILITY Speedway Landfill		SIGN	ATURE OF CERTIFIED WELL C	ONTRACTOR	DATE
STREET ADDRESS					
City or Town State	Zip Code		ATURE OF PRIVATE WELL OW rivate well owner must be an individua		
4b. CONTACT PERSON/WELL OWNER:		in acco	ordance with 15A NCAC 2C .0113.)		
NAME Allied Waste Systems			Made E. Seil		
STREET ADDRESS 5105 Morehead Ro	d.Corcord NC 282	PRIN	TED NAME OF PERSON ABAND	ONING THE WEL	T.

North Carolina Department of Environment and Natural Resources- Division of Water Quality

1. WELL CONTRACTOR:	5. WELL DETAILS:		
Mark E. Seiler, Sr.	a. Total Depth: 18. 4 ft. Diameter: 2 in.		
Well Contractor (Individual) Name	b. Water Level (Below Measuring Point): 10.7 ft		
Red Dog Drilling	Measuring point is 2 ft. above land surface.		
Well Contractor Company Name			
STREET ADDRESS 216 Pinewood Lane	6. CASING: Length Diameter		
Midland NC 28107	a. Casing Depth (if known): 184 ft. 2 in. b. Casing Removed: 184 ft. 2 in.		
City or Town State Zip Code	b. Casing Removed: 184 ft. 2 in.		
(704) - 888-5422 Area code - Phone number	- province HTH 11b		
Area code - Phone number	7. DISINFECTION: HTH - 1 lb		
2. WELL INFORMATION: SITE WELL ID # (if anolicable) P-50	(Amount of 65%-75% calcium hypochlorite used)		
SITE WELL ID # (if applicable) P- S S	8. SEALING MATERIAL:		
STATE WELL PERMIT # (if applicable)	Neat Cement Sand Cement		
COUNTY WELL PERMIT # (if applicable)	Cement 94 th. Cement th. Water 7.5 gal. Water 22L		
DWQ or OTHER PERMIT # (if applicable)	Bentonite		
WELL USE (Check applicable use): Monitoring Residential	Bentonite 5" lb.		
☐ Municipal/Public ☐ Industrial/Commercial ☐ Agricultural	Type: ☑ Slurry □ Pollets		
☐ Recovery ☐ Injection ☐ Irrigation	Water 75 gal.		
Other (list use) Piezometer	Other		
Other (list use) 1 1020110101	Type material Bert - Growt Amount 25 Collons		
3. WELL LOCATION:	Amount 25 Collans		
COUNTY Mecklenbur QUADRANGLE NAME	Milouit Sanouni		
NEAREST TOWN: Harrisburg - Concord			
Allied Waste CMS V Landfill - Phase 2	EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL: Overdrill Hollow Stem Auger		
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)	Pull Casing - Screen		
TOPOGRAPHIC / LAND SETTING:	Tremie Grout 1" Pipe		
Slope Valley Flat Ridge Other			
(Check appropriate setting)			
May be in degrees,	10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this		
LATITUDE minutes, seconds, or in a decimal format	form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and		
LONGITUDE	types of fill materials used.		
Latitude/longitude source: GPS Topographic map	malada		
(Location of well must be shown on a USGS topo map and	H. DATE WELL ABANDONED 6/11/09		
attached to this form if not using GPS.) 2a. FACHATY- The mone of the business where the well is located Complete 4a and the	I DO HERBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NGAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF		
(If a residential well, skip 4a; complete 4b, well owner information enty.)	THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.		
FACILITY ID #(if applicable)	The C. Sele 7/20/09		
NAME OF FACILITY Speedway Landfill	SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE		
STREET ADDRESS			
City or Town State Zip Code	SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE The private well owner must be an individual who expossibly abandons higher residential well		
4b. CONTACT PERSON/WELL OWNER:	in ac conduces with 15A WCAC 2C .0(13.)		
NAME Allied Waste Systems	Mark E. Seder		
STREET ADDRESS 5105 Morehead Rd.Corcord MC 282	PRINTED NAME OF PERSON ABANDONING THE WELL		

I. WELL CONTRACTOR:	5. WELL DETAILS:
Mark E. Seiler, Sr.	a. Total Depth: 24.0 ft. Diameter: 2 in.
Well Contractor (Individual) Name	b. Water Level (Below Measuring Point): ft.
Red Dog Drilling	Measuring point is 2 ft. above land surface.
Well Contractor Company Name	
STREET ADDRESS 216 Pinewood Lane	6. CASING: Length Diameter
Midland NC 28107	a. Casing Depth (if known): 24 ft. 2 in. b. Casing Removed: 44 ft. 3 in.
City or Town State Zip Code	b. Casing Removed: 24 ft. 2 in.
(704) - 888-5422	11771 4 15
Area code - Phone number	7. DISINFECTION: HTH - 1 lb
2. WELL INFORMATION: SITE WELL IN 4 GF and leading the P · 5 3	(Amount of 65%-75% calcium hypochlorite used)
SITE WELL ID # (if applicable) 1 33	8. SEALING MATERIAL:
STATE WELL PERMIT # (if applicable)	Neat Cement Sand Cement
COUNTY WELL PERMIT # (if applicable)	Cement 94 lb. Cement lb. Water 7.5 gal. Water gal.
DWQ or OTHER PERMIT # (if applicable)	Bentonite
WELL USE (Check applicable use): Monitoring Residential	Bentonite 5 lb.
☐ Municipal/Public ☐ Industrial/Commercial ☐ Agricultural	Type: ☑ Slurry □Pellets
Recovery Injection Irrigation	Water 7.5 gal.
	Other
Other (list use) Piezometer	Type material Bent. GAST
3. WELL LOCATION:	Type material Bent. Gast Amount 40 Gallons
COUNTY Mecklenburg QUADRANGLE NAME	
NEAREST TOWN: Harrisburg - Concord	9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:
Allied Waste CMS V Landfill - Phase 2	Overdrill Hollow Stem Auger
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)	Pull Casing - Screen
TOPOGRAPHIC / LAND SETTING:	Tremie Grout 1" Pipe
Slope Valley Flat Ridge Other	
(Check appropriate setting)	10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this
LATITUDE May be in degrees,	form showing total depth, depth and diameter of screens (if any) remaining
decimal format	in the well, gravel interval, intervals of easing perforations, and depths and
LONGITUDE	types of fill materials used.
Latitude/longitude source: GPS Topographic map	11. DATE WELL ABANDONED _ C./11/09
(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)	
4a. FACILITY- The name of the business where the well is located. Complete 4a and the (If a residential well, skip 4a; complete 4b, well owner information only.)	I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.
FACILITY ID #(if applicable)	Mr. Op M D - Shelin
NAME OF FACILITY Speedway Landfill	Mus C. Seelle 7/20/09
STREET ADDRESS	The state of the s
City or Town State Zip Cede	SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
4b. CONTACT PERSON/WELL OWNER:	(The private well owner most be an individual who <u>personally</u> abandons his/her residential well in accordance with 15A NCAC 2C .0113.)
NAME Allied Waste Systems	Mark E Seiler
STREET ADDRESS 5105 Morehead Rd.Corcord NC 282	PRINTED NAME OF PERSON ABANDONING THE WELL
STATES ADDALOS	

1. WELL CONTRACTOR:	5. WELL DETAILS:		
Mark E. Seiler, Sr.	a. Total Depth: 15 ft. Diameter: 2 in.		
Well Contractor (Individual) Name	b. Water Level (Below Measuring Point): ft.		
Red Dog Drilling	Measuring point isft. above land surface.		
Well Contractor Company Name	6. CASING: Length Diameter		
STREET ADDRESS 216 Pinewood Lane			
Midland NC 28107	a. Casing Depth (if known): 15 ft. 2 in. b. Casing Removed: 15 ft. 2 in.		
City or Town State Zip Code (704) - 888-5422	b. Casing Removed: 13 ft. 2 in.		
Area code - Phone number	7. DISINFECTION: HTH - 1 lb		
2. WELL INFORMATION:	(Amount of 65% 75% calcium hypochlorite used)		
SITE WELL ID # (if applicable) 9-56	8. SEALING MATERIAL:		
STATE WELL PERMIT # (if applicable)	Neat Coment Sand Coment		
COUNTY WELL PERMIT # (if applicable)	Cement 94 lb. Cement lb. Water 7.5 gal. Water gal.		
DWQ or OTHER PERMIT # (if applicable)	Bentonite		
WELL USE (Check applicable use): Monitoring Residential	Bentonite 5" lb.		
☐ Municipal/Public ☐ Industrial/Commercial ☐ Agricultural	Type: ☑ Siurry ☐ Pellets		
Recovery Injection Irrigation	Water 7.5 gal.		
	Other		
Other (list use) Piezometer	Type material Beat - Gost		
3. WELL LOCATION:	Type material Bent-Groat Amount 25 Collons		
COUNTY Mecklenburg QUADRANGLE NAME	Amount 25 Gentles		
NEAREST TOWN: Harrisburg - Concord			
Allied Waste CMS V Landfill - Phase 2	EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL: Overdrill Hollow Stem Auger		
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)	Pull Casing - Screen		
TOPOGRAPHIC / LAND SETTING:	Tremie Grout 1" Pipe		
☑ Slope □ Valley □ Flat □ Ridge □ Other			
(Check appropriate setting)			
May be in degrees.	 WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining 		
LATTIUDE minutes, seconds, or in a decimal format	in the well. gravel interval, intervals of easing perforations, and depths and		
LONGITUDE	types of fill materials used.		
Latitude/longitude source: GPS Topographic map	II. DATE WELL ABANDONED 6/10/09		
(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)	H. DATE WELL ABANDONED		
4a. FACILITY- The mone of the brainess where the well is located. Complete 4a and 4b (If a residential well, skip 4a; complete 4b, well owner information only.)	I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.		
FACILITY ID #(if applicable)	11.0 P do. a. 7/20/09		
NAME OF FACILITY Speedway Landfill	SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE		
STREET ADDRESS			
	SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE		
City or Town State Zip Code	(The private well owner must be an individual who personally abandons his/her residential well		
4b. CONTACT PERSON/WELL OWNER:	in accordance with 15A NCAC 2C .0113.)		
NAME Allied Waste Systems	PRINTED NAME OF PERSON ABANDONING THE WELL		
STREET ADDRESS 5105 Morehead Rd, Corcord NC 282			
i	1		

1. WELL CONTRACTOR:	5. WELL DETAILS:
Mark E. Seiler, Sr.	a. Total Depth: 19.3 ft. Diameter: 2 in.
Well Contractor (Individual) Name	b. Water Level (Below Measuring Point): /01/ ft.
Red Dog Drilling Well Contractor Company Name	Measuring point is 2 ft. above land surface.
STREET ADDRESS 216 Pinewood Lane	6. CASING: Length Diameter
Midland NC 28107	a. Casing Depth (if known): 19.3 ft. in. b. Casing Removed: 17.3 ft. in.
City or Town State Zip Code	b: Casing Removed: 19.3 ft. in.
(704) - 888-5422 Area code - Phone number	7. DISINFECTION: HTH - 1 lb
2. WELL INFORMATION:	(Amount of 65%-75% calcium hypochlorite used)
SITE WELL ID # (if applicable) P. 47	8. SEALING MATERIAL:
STATE WELL PERMIT # (if applicable)	Neal Cement Sand Cement
COUNTY WELL PERMIT # (if applicable)	Cement 94 tb. Cement lb. Water 7.5 gal. Water gal.
DWQ or OTHER PERMIT # (if applicable)	Bentonite
WELL USE (Check applicable use): Monitoring Residential	Bentonite 5 lb.
☐ Municipal/Public ☐ Industrial/Commercial ☐ Agricultural	Type: ✓ Slurry Pellets Water 7.5 201.
Recovery Injection Irrigation	Other
Other (list use) Piezometer	
	Type material BONT CIGIT Amount 30 Cellons
3. WELL LOCATION:	Amount 30 Callens
COUNTY Mecklenburg QUADRANGLE NAME	
NEAREST TOWN: Harrisburg - Concord	9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:
Allied Waste CMS V Landfill - Phase 2	Overdrill Hollow Stem Auger
(Street/Road Name, Number, Commentity, Subdivision, Lot No., Parcel, Zip Code)	Pull Casing - Screen
TOPOGRAPHIC / LAND SETTING:	Tremie Grout 1" Pipe
Slope Valley Flot Ridge Other	
(Check appropriate setting)	10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this
LATTIUDE Minutes, seconds, on in a	form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of easing perforations, and depths and
LONGITUDE decinal format	types of fill materials used.
Latitudestongitude source: GPS Topographic map (Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)	11. DATE WELL ABANDONED 6/11/09
4a. FACHATY- The nume of the fundament where the well is located. Complete 4a and/o (If a residential well, skip 4a, complete 4b, well owner information only.)	I DO MERLBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH ISA NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL GWNER.
FACILITY ID #(if applicable)	11.0 8 of 1 7/20/100
NAME OF FACILITY Speedway Landfill	SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE
STREET ADDRESS	
City or Town State Zip Cade	SEGNATURE OF PRIVATE EVELL OWNER ABANDONING THE WELL DATE. (The grivate well severe must be an individual with generally abandons his/hor casidemial well
4b. CONTACT PERSON/WELL OWNER:	in accordance with 15A MCAC 2C .G113.)
NAME Allied Waste Systems	Mark Esedes
STREET ADDRESS 5105 Morehead Rd. Corcord NC 282	PREVIED NAME OF PERSON ABANDONING THE WELL

1. WELL CONTRACTOR:		5.	WELL DETAILS:	
Mark E. Seiler, Sr.			a. Total Depth: 40 ft. Dian	neter: 2 in.
Well Contractor (Individual) Name			b. Water Level (Below Measuring Point	t):ft.
Red Dog Drilling			Measuring point is 2 ft. at	bove land surface.
Well Contractor Company Name				
STREET ADDRESS 216 Pinewood Lane		6.	CASING: Let	ngth Diameter
	8107		a. Casing Depth (if known): 46 b. Casing Removed: 46	n. 2 in.
City or Town State Zip	Code		b. Casing Removed:)ftin.
(704) - 888-5422 Area code - Phone number	and the second	7.	DISINFECTION: HTH - 1 lb	
2. WELL INFORMATION:			(Amount of 65% 75% calcium hypoch	ilorite used)
SITE WELL ID # (if applicable) MMW	12	8.	SEALING MATERIAL:	
STATE WELL PERMIT # (if applicable)			Neat Cement	Sand Cement
COUNTY WELL PERMIT # (if applicable)			Cement 94 lb. Water 7.5 gal.	Cement lb. Water gal.
DWQ or OTHER PERMIT # (if applicable)			Bentonite	
WELL USE (Check applicable use): 🗹 Monitorin	g [Residential		Bentonite 5° lb.	
☐ Municipal/Public ☐ Industrial/Commercia	l 🗌 Agricultural		Type: Slurry Pellets	
☐ Recovery ☐ Injection ☐ Irrigation			Water 7.1 gal	
			Other	
Uther (list use) Piezometer			Type material Bent. G	rost
3. WELL LOCATION:			Amount 60 Gal	cnol
COUNTY Mecklenbur QUADRANGLE NAME	a		. Hitodat	
NEAREST TOWN: Harrisburg - Concord		9.	EXPLAIN METHOD OF EMPLACI	EMENT OF MATERIAL.
Allied Waste CMS V Landfill - Phase		9.	Overdrill Hollow Stem Auger	
(Street/Road Name, Number, Community, Subdivision, Lo	st No., Parcel, Zip Code)		Pull Casing - Screen	
TOPOGRAPHIC / LAND SETTING:			Tremie Grout 1" Pipe	
Slope Valley Flat Ridge Other				
(Check appropriate setting)				
Mari	v be in degrees.	10.		
LATITUDE min	utes, seconds, or in a		form showing total depth, depth and di- in the well, gravel interval, intervals of	
LONGITUDE	imal format		types of fill materials used.	
Latitude/longitude source: GPS Topog				111/09
(Location of well must be shown on a USGS topo may	p and	11. 1	DATE WELL ABANDONED	771107
attached to this form if not using GPS.)			HEREBY CERTIFY THAT THIS WELL WAS	
4a. FACILITY- The name of the business where the well is le (If a residential well, skip 4a; complete 4b, well owner infor			15A NCAC 2C, WELL CONSTRUCTION S RECORD HAS BEEN PROVIDED TO THE	
FACILITY ID #(if applicable)		-	11.00 DAB	7/20/09
NAME OF FACILITY Speedway Landfill		SIGN	ATURE OF CERTIFIED WELL CONTRA	ACTOR DATE
STREET ADDRESS				
City or Town State	7.111 COUC 3 1		ATURE OF PRIVATE WELL OWNER AR	
4b. CONTACT PERSON/WELL OWNER:			rivate well owner must be an individual who go ordance with 15A NCAC 2C .0113.)	ersonally abandons he her residential well
NAME Allied Waste Systems			Mark E Seiler	
STREET ADDRESS 5105 Morehead Rd. Corcord NC 282			TED NAME OF PERSON ABANDONING	THE WELL
GIRLLI ADIRIAS - TO THE STATE OF THE STATE O				